

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 08/444,791A
Source: 1FW/6
Date Processed by STIC: 3/22/05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 03/22/2005

PATENT APPLICATION: US/08/444,791A

TIME: 11:53:10

Input Set : A:\40451C.txt

Output Set: N:\CRF4\03222005\H444791A.raw

3 <110> APPLICANT: Brockhaus, et al.
 5 <120> TITLE OF INVENTION: Human TNF Receptor
 7 <130> FILE REFERENCE: 01017/40451C
 9 <140> CURRENT APPLICATION NUMBER: US 08/444,791A
 10 <141> CURRENT FILING DATE: 1995-05-19
 12 <160> NUMBER OF SEQ ID NOS: 26
 14 <170> SOFTWARE: PatentIn version 3.3
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 2111
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Homo sapiens
 21 <400> SEQUENCE: 1

p. 6

22	gaattcgggg	gggttcaaga	tacttgggac	caggccgtga	tctctatgcc	cgagtctcaa	60
24	ccctcaactg	tcacccaag	gcacttggga	cgtcctggac	agaccgagtc	ccgggaagcc	120
26	ccagcactgc	cgctgccaca	ctgccctgag	cccaaatggg	ggagtgagag	gccatagctg	180
28	tctggcatgg	gcctctccac	cgtgcctgac	ctgctgctgc	cgctgggtgct	cctggagctg	240
30	ttgggtgggaa	tataccctc	aggggttatt	ggactgggtcc	ctcacctagg	ggacagggag	300
32	aagagagata	gtgtgtgtcc	ccaaggaaaa	tatatccacc	ctcaaaataa	ttcgatttgc	360
34	tgtaccaagt	gccacaaagg	aacctacttg	tacaatgact	gtccaggccc	ggggcaggat	420
36	acggactgca	gggagtgtga	gagcggctcc	ttcaccgctt	cagaaaaacca	cctcagacac	480
38	tgcttcagct	gctccaaatg	ccgaaaggaa	atgggtcagg	tggagatctc	ttcttgca	540
40	gtggaccggg	acaccgtgtg	tggctgcagg	aagaaccagt	accggcatta	ttggagtga	600
42	aaccttttcc	agtgttcaa	ttgcagcctc	tgctcaatg	ggaccgtgca	cctctcctgc	660
44	caggagaaac	agaacaccgt	gtgcacctgc	catgcagggt	tctttctaag	agaaaacgag	720
46	tgtgtctcct	gtagtaactg	taagaaaagc	ctggagtcca	cgaagtgtgt	cctaccaccag	780
48	attgagaatg	ttaagggcac	tgaggactca	ggcaccacag	tgctgttgcc	cctgggtcatt	840
50	ttctttgggtc	tttgcccttt	atccctcctc	ttcattgggt	taatgtatcg	ctaccaacgg	900
52	tggaaagtcca	agctctactc	cattgtttgt	gggaaatcga	cacctgaaaa	agaggggggag	960
54	cttgaaggaa	ctactactaa	gcccctggcc	ccaaacccaa	gcttcagtcc	cactccaggc	1020
56	ttcaccccca	ccctgggctt	cagtcccgtg	cccagttcca	ccttcacctc	cagctccacc	1080
58	tatacccccg	gtgactgtcc	caactttgct	gctccccgca	gagaggtggc	accaccctat	1140
60	cagggggctg	accccatcct	tgcgacagcc	ctcgctcccg	accccatccc	caacccctt	1200
62	cagaagtggg	aggacagcgc	ccacaagcca	cagagcctag	acactgatga	ccccgcgacg	1260
64	ctgtacgccg	tgggtggagaa	cgtgcccccg	ttgcgctgga	aggaattcgt	gcggcgcccta	1320
66	gggctgagcg	accacgagat	cgatcggctg	gagctgcaga	acgggcgctg	cctgcgcgag	1380
68	gcgcaataca	gcatgctggc	gacctggagg	cggcgcacgc	cgcggcgcca	ggccacgctg	1440
70	gagctgctgg	gacgcgtgct	ccgcgacatg	gacctgctgg	gctgcctgga	ggacatcgag	1500
72	gaggcgcttt	gcggccccgc	cgccctcccg	cccgcgcca	gtcttctcag	atgaggctgc	1560
74	gcccctgcgg	gcagctctaa	ggaccgtcct	gcgagatcgc	cttccaaccc	cacttttttc	1620
76	tggaaaggag	gggtcctgca	ggggcaagca	ggagctagca	gccgcctact	tgggtgcta	1680
78	ccctcgatgt	acatagcttt	tctcagctgc	ctgcgcgcgc	ccgacagtca	gcgctgtgcg	1740
80	cgcggagaga	ggtgcgccgt	gggtccaaga	gcctgagtgg	gtgggttgcg	aggatgaggg	1800
82	acgctatgcc	tcatgcccgt	tttgggtgtc	ctcaccagca	aggctgctcg	ggggccctg	1860

RAW SEQUENCE LISTING

DATE: 03/22/2005

PATENT APPLICATION: US/08/444,791A

TIME: 11:53:10

Input Set : A:\40451C.txt

Output Set: N:\CRF4\03222005\H444791A.raw

```

84 gtctgctccct gagccttttt cacagtgcac aagcagtttt ttttgttttt gttttgtttt 1920
86 gttttgtttt taaatcaatc atgttacact aatagaaact tggcactcct gtgcctctg 1980
88 cctggacaag cacatagcaa gctgaactgt cctaaggcag gggcgagcac ggaacaatgg 2040
90 ggccttcagc tggagctgtg gacttttgta catacactaa aattctgaag ttaaaaaaaaa 2100
92 aacccgaatt c 2111
95 <210> SEQ ID NO: 2
96 <211> LENGTH: 455
97 <212> TYPE: PRT
98 <213> ORGANISM: Homo sapiens
100 <400> SEQUENCE: 2
102 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu
103 1 5 10 15
106 Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro
107 20 25 30
110 His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys
111 35 40 45
114 Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
115 50 55 60
118 Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp
119 65 70 75 80
122 Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu
123 85 90 95
126 Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val
127 100 105 110
130 Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg
131 115 120 125
134 Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe
135 130 135 140
138 Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu
139 145 150 155 160
142 Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu
143 165 170 175
146 Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr
147 180 185 190
150 Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser
151 195 200 205
154 Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu
155 210 215 220
158 Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys
159 225 230 235 240
162 Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu
163 245 250 255
166 Gly Glu Leu Glu Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser
167 260 265 270
170 Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val
171 275 280 285
174 Pro Ser Ser Thr Phe Thr Ser Ser Thr Tyr Thr Pro Gly Asp Cys
175 290 295 300
178 Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly

```

RAW SEQUENCE LISTING

DATE: 03/22/2005

PATENT APPLICATION: US/08/444,791A

TIME: 11:53:10

Input Set : A:\40451C.txt

Output Set: N:\CRF4\03222005\H444791A.raw

```

179 305          310          315          320
182 Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn
183          325          330          335
186 Pro Leu Gln Lys Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp
187          340          345          350
190 Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro
191          355          360          365
194 Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu
195          370          375          380
198 Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln
199 385          390          395          400
202 Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala
203          405          410          415
206 Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly
207          420          425          430
210 Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro
211          435          440          445
214 Pro Ala Pro Ser Leu Leu Arg
215          450          455
218 <210> SEQ ID NO: 3
219 <211> LENGTH: 2339
220 <212> TYPE: DNA
221 <213> ORGANISM: Homo sapiens
223 <400> SEQUENCE: 3
224 tcggacaccg tgtgtgactc ctgtgaggac agcacataca cccagctctg gaactggggtt 60
226 cccgagtgtc tgagctgtgg ctcccgtgtg agctctgacc aggtggaaac tcaagcctgc 120
228 actcgggaac agaaccgcat ctgcacctgc aggcccggtc ggtactgcgc gctgagcaag 180
230 caggaggggt gccggctgtg cgcgccgtg ccgaagtgcc gcccgggctt cggcgtggcc 240
232 agaccaggaa ctgaaacatc agacgtggtg tgcaagccct gtgccccggg gacgttctcc 300
234 aacacgactt catccacgga tatttgcagg cccaccaga tctgtaacgt ggtggccatc 360
236 cctgggaatg caagcagga tgcagtctgc acgtccacgt cccccaccg gagtatggcc 420
238 ccaggggcag tacacttacc ccagccagtg tccacacgat cccaacacac gcagccaagt 480
240 ccagaaccca gcaactgtcc aagcacctcc ttctgtctcc caatgggccc cagcccccca 540
242 gctgaaggga gcaactggcg cttcgctctt ccagttggac tgattgtggg tgtgacagcc 600
244 ttgggtctac taataatagg agtgggtgaac tgtgtcatca tgaccaggt gaaaaagaag 660
246 cccttgtgcc tgcagagaga agccaagtg cctcacttgc ctgccgataa ggcccggggt 720
248 acacagggcc ccgagcagca gcacctgtg atcacagcgc cgagctccag cagcagctcc 780
250 ctggagagct cggccagtgc gttggacaga agggcgcca ctcggaacca gccacaggca 840
252 ccaggcgtgg aggccagtgg ggccggggag gcccgggcca gcaccgggag ctcagcagat 900
254 tcttcccctg gtggccatgg gaccaggtc aatgtcacct gcatcgtgaa cgtctgtagc 960
256 agctctgacc acagctcaca gtgtcctcc caagccagct ccacaatggg agacacagat 1020
258 tccagcccct cggagtcccc gaaggacgag caggtcccct tctccaagga ggaatgtgcc 1080
260 tttcggtcac agctggagac gccagagacc ctgctgggga gcaccgaaga gaagcccctg 1140
262 ccccttggag tgctgatgc tgggatgaag ccagttaac caggccggtg tgggctgtgt 1200
264 cgtagccaag gtggctgagc cctggcagga tgacctgcg aaggggcccct ggtccttcca 1260
266 ggccccacc actaggactc tgaggctctt tctgggcaa gttcctctag tgccctccac 1320
268 agccgcagcc tccctctgac ctgcaggcca agagcagagg cagcgagtgt tggaaagcct 1380
270 ctgctgccat ggcgtgtccc tctcggaagg ctggctgggc atggacgttc ggggcgtgct 1440
272 ggggcaagtc cctgagtctc tgtgacctgc cccgccagc tgcacctgcc agcctggctt 1500

```

RAW SEQUENCE LISTING

DATE: 03/22/2005

PATENT APPLICATION: US/08/444,791A

TIME: 11:53:10

Input Set : A:\40451C.txt

Output Set: N:\CRF4\03222005\H444791A.raw

```

274 ctggagccct tgggtttttt gtttgtttgt ttgtttgttt gtttgtttct cccctggggc 1560
276 tctgcccagc tctggcttcc agaaaacccc agcatccttt tctgcagagg ggctttctgg 1620
278 agaggaggga tgctgcctga gtcacccatg aagacaggac agtgcttcag cctgaggctg 1680
280 agactgcggg atggtccttg ggctctgtgc agggaggagg tggcagccct gtagggaacg 1740
282 gggtccttca agttagctca ggaggcttgg aaagcatcac ctgaggccag gtgcagtggc 1800
284 tcacgcctat gatcccagca ctttgggagg ctgaggcggg tggatcacct gaggttagga 1860
286 gttcgagacc agcctggcca acatggtaaa accccatctc tactaaaaat acagaaatta 1920
288 gccgggcggt gtggcgggca cctatagtcc cagctactca gaagcctgag gctgggaaat 1980
290 cgtttgaacc cgggaagcgg aggttgtagg gagccgagat cacgccactg cactccagcc 2040
292 tgggcgacag agcgagagtc tgtctcaaaa gaaaaaaaaa aagcaccgcc tccaaatgct 2100
294 aacttgctct tttgtaccat ggtgtgaaag tcagatgccc agagggccca ggcaggccac 2160
296 catattcagt gctgtggcct gggcaagata acgcacttct aactagaaat ctgccaat 2220
298 tttaaaaaag taagtaccac tcaggccaac aagccaacga caaagccaaa ctctgccagc 2280
300 cacatccaac cccccacctg ccatttgcac cctccgcctt cactccggtg tgccctgcag 2339
303 <210> SEQ ID NO: 4
304 <211> LENGTH: 392
305 <212> TYPE: PRT
306 <213> ORGANISM: Homo sapiens
308 <400> SEQUENCE: 4
310 Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
311 1 5 10 15
314 Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
315 20 25 30
318 Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
319 35 40 45
322 Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
323 50 55 60
326 Arg Leu Cys Ala Pro Leu Pro Lys Cys Arg Pro Gly Phe Gly Val Ala
327 65 70 75 80
330 Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
331 85 90 95
334 Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
335 100 105 110
338 Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Arg Asp Ala
339 115 120 125
342 Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
343 130 135 140
346 His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Ser
347 145 150 155 160
350 Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
351 165 170 175
354 Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp Phe Ala Leu Pro Val
355 180 185 190
358 Gly Leu Ile Val Gly Val Thr Ala Leu Gly Leu Leu Ile Ile Gly Val
359 195 200 205
362 Val Asn Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu Cys Leu
363 210 215 220
366 Gln Arg Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly
367 225 230 235 240

```

RAW SEQUENCE LISTING

DATE: 03/22/2005

PATENT APPLICATION: US/08/444,791A

TIME: 11:53:10

Input Set : A:\40451C.txt

Output Set: N:\CRF4\03222005\H444791A.raw

```

370 Thr Gln Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser
371          245          250          255
374 Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser Ala Leu Asp Arg Arg Ala
375          260          265          270
378 Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly Val Glu Ala Ser Gly Ala
379          275          280          285
382 Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser Ala Asp Ser Ser Pro Gly
383          290          295          300
386 Gly His Gly Thr Gln Val Asn Val Thr Cys Ile Val Asn Val Cys Ser
387 305          310          315          320
390 Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ser Thr Met
391          325          330          335
394 Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro Lys Asp Glu Gln Val
395          340          345          350
398 Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro
399          355          360          365
402 Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val
403          370          375          380
406 Pro Asp Ala Gly Met Lys Pro Ser
407 385          390

```

410 <210> SEQ ID NO: 5

411 <211> LENGTH: 28

412 <212> TYPE: PRT

413 <213> ORGANISM: Artificial sequence

415 <220> FEATURE:

416 <223> OTHER INFORMATION: Synthetic peptide

419 <220> FEATURE:

420 <221> NAME/KEY: misc_feature

421 <222> LOCATION: (25)..(25)

422 <223> OTHER INFORMATION: Xaa = unknown amino acid

424 <400> SEQUENCE: 5

426 Leu Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro

427 1 5 10 15

W--> 430 Gln Gly Lys Tyr Ile His Pro Glu Xaa Asn Ser Ile

431 20 25

433 <210> SEQ ID NO: 6

434 <211> LENGTH: 15

435 <212> TYPE: PRT

436 <213> ORGANISM: Artificial sequence

438 <220> FEATURE:

439 <223> OTHER INFORMATION: Synthetic peptide

441 <400> SEQUENCE: 6

443 Ser Thr Pro Glu Lys Glu Gly Glu Leu Glu Gly Thr Thr Thr Lys

444 1 5 10 15

447 <210> SEQ ID NO: 7

448 <211> LENGTH: 18

449 <212> TYPE: PRT

450 <213> ORGANISM: Artificial sequence

452 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/22/2005
PATENT APPLICATION: US/08/444,791A TIME: 11:53:11

Input Set : A:\40451C.txt
Output Set: N:\CRF4\03222005\H444791A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 25/
Seq#:10; Xaa Pos. 8
Seq#:11; Xaa Pos. 2
Seq#:14; Xaa Pos. 9,10,13

VERIFICATION SUMMARY

DATE: 03/22/2005

PATENT APPLICATION: US/08/444,791A

TIME: 11:53:11

Input Set : A:\40451C.txt

Output Set: N:\CRF4\03222005\H444791A.raw

L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
L:509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0